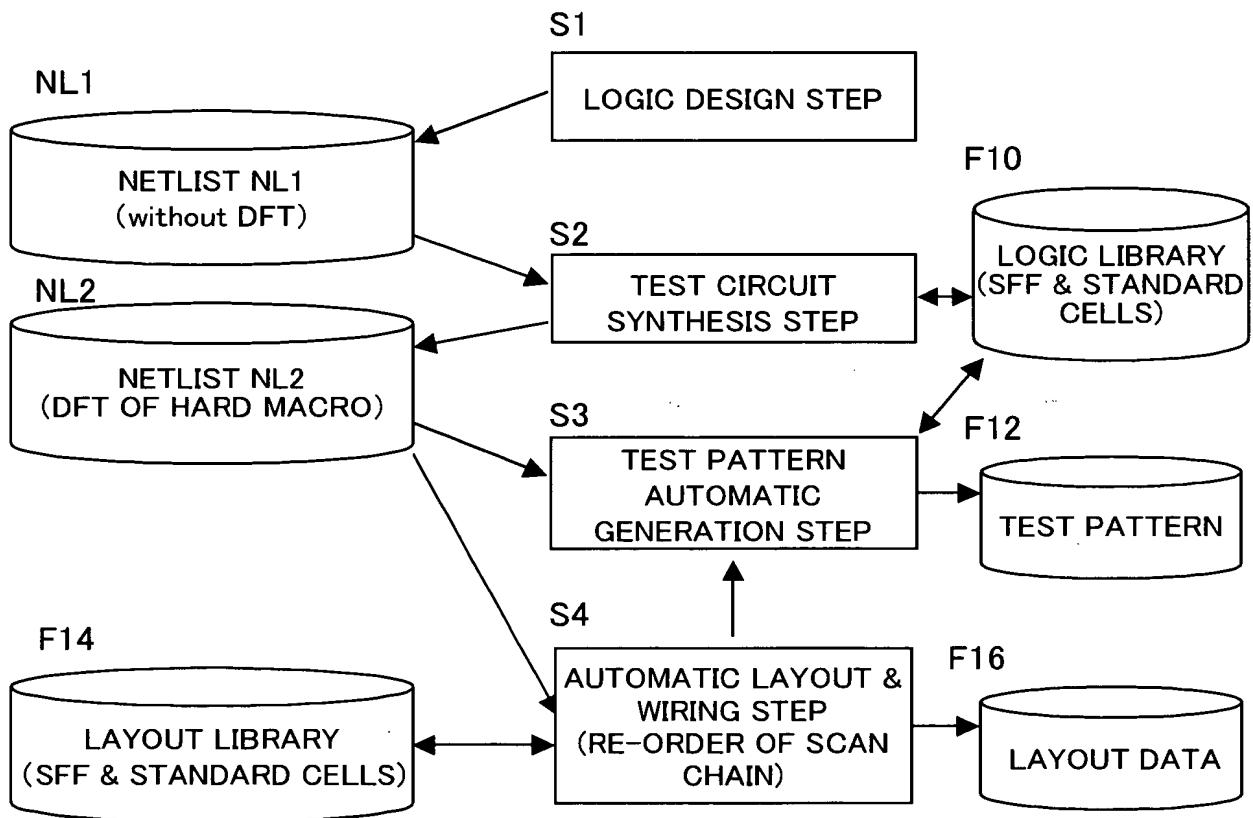


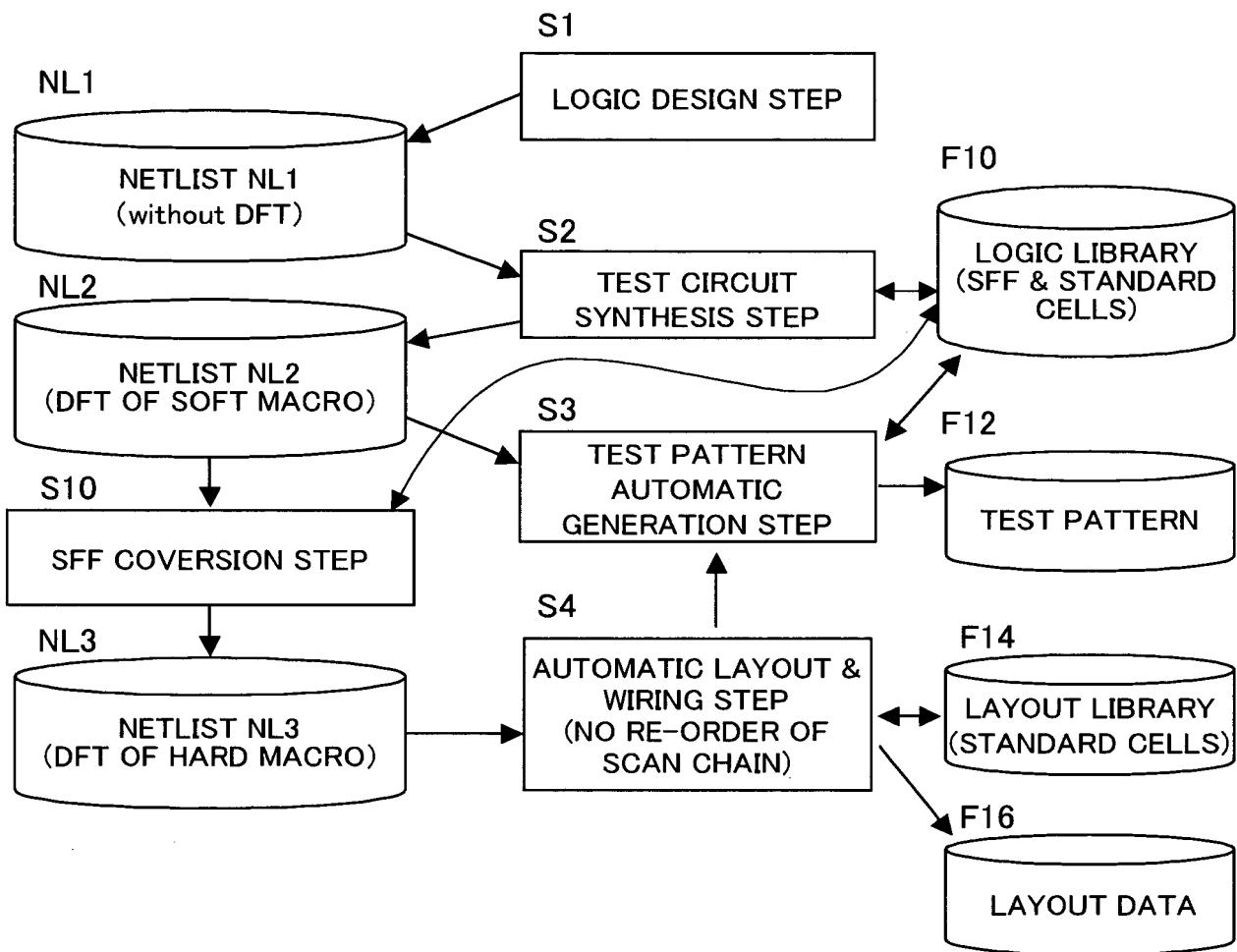
**FIG. 1**

CONVENTIONAL DESIGN PROCESS



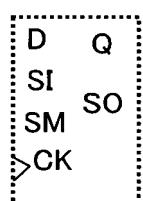
**FIG. 2**

COMPARATIVE EXAMPLE OF DESIGN PROCESS



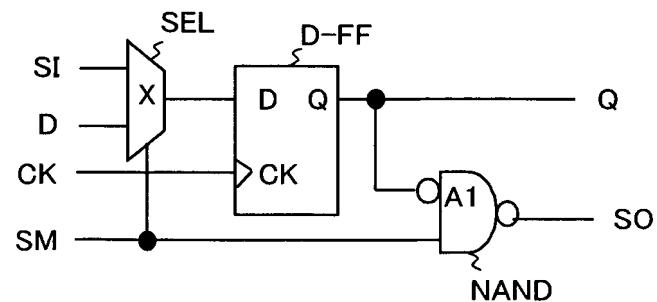
**FIG. 3**

SFF OF SOFT MACRO

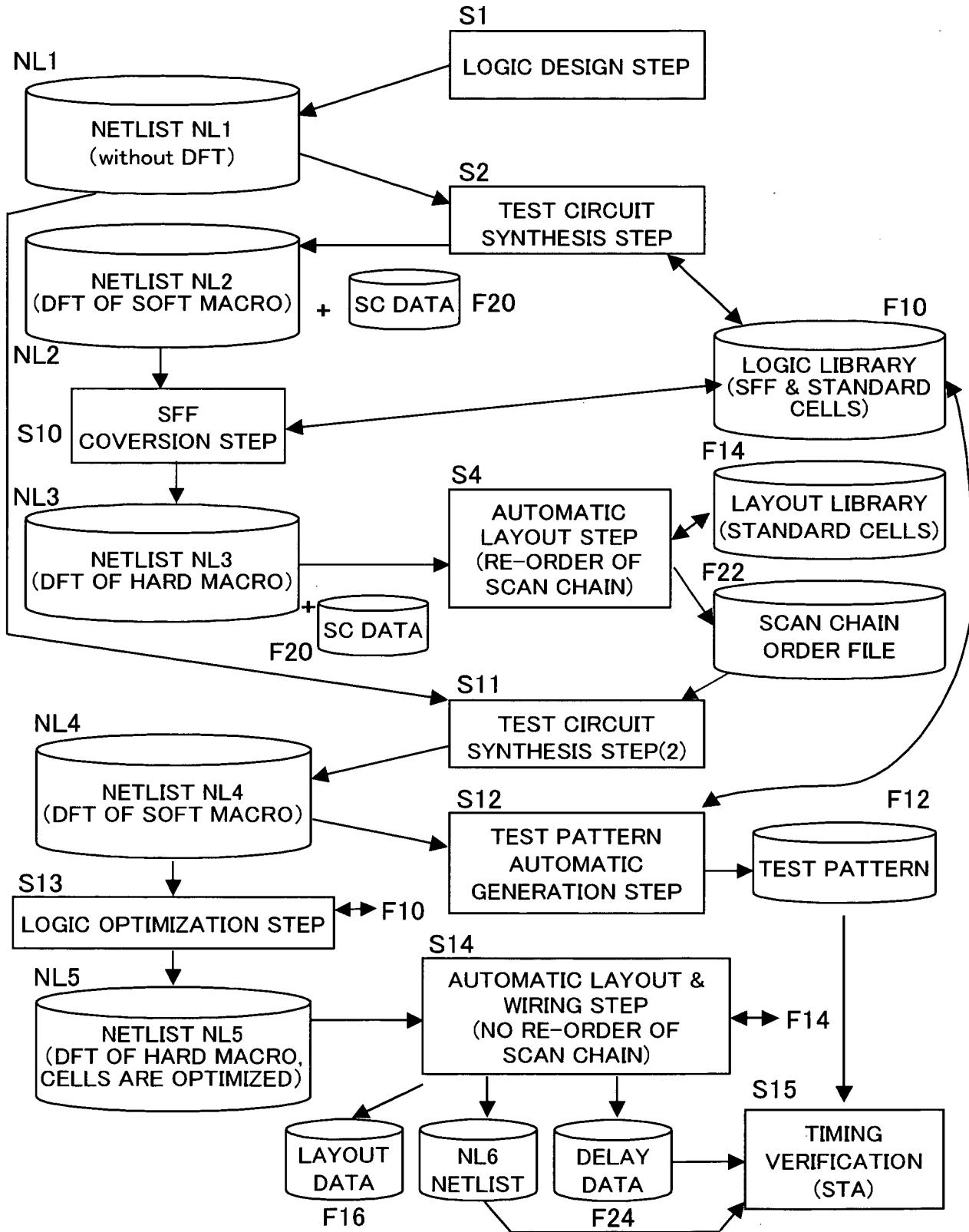


=

SFF DEVELOPED AS STANDARD CELLS

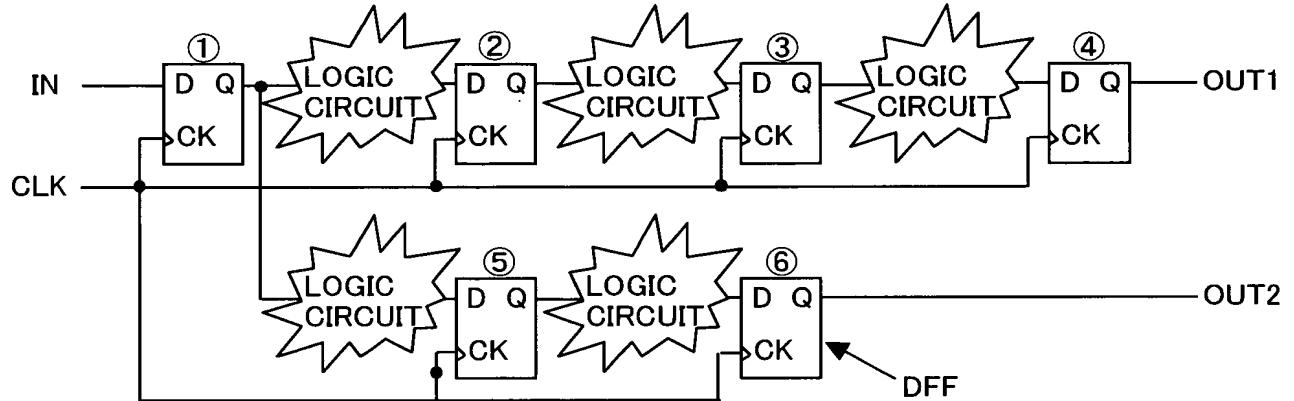


**FIG. 4**  
DESIGN PROCESS OF EMBODIMENT



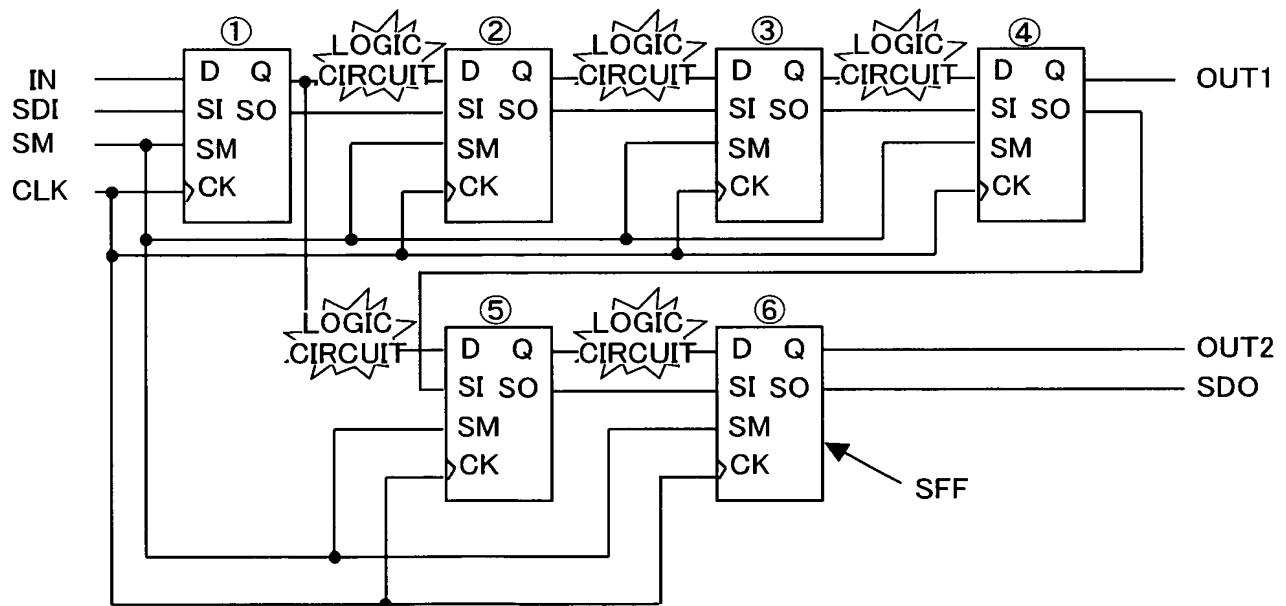
**FIG. 5**

NETLIST NL1



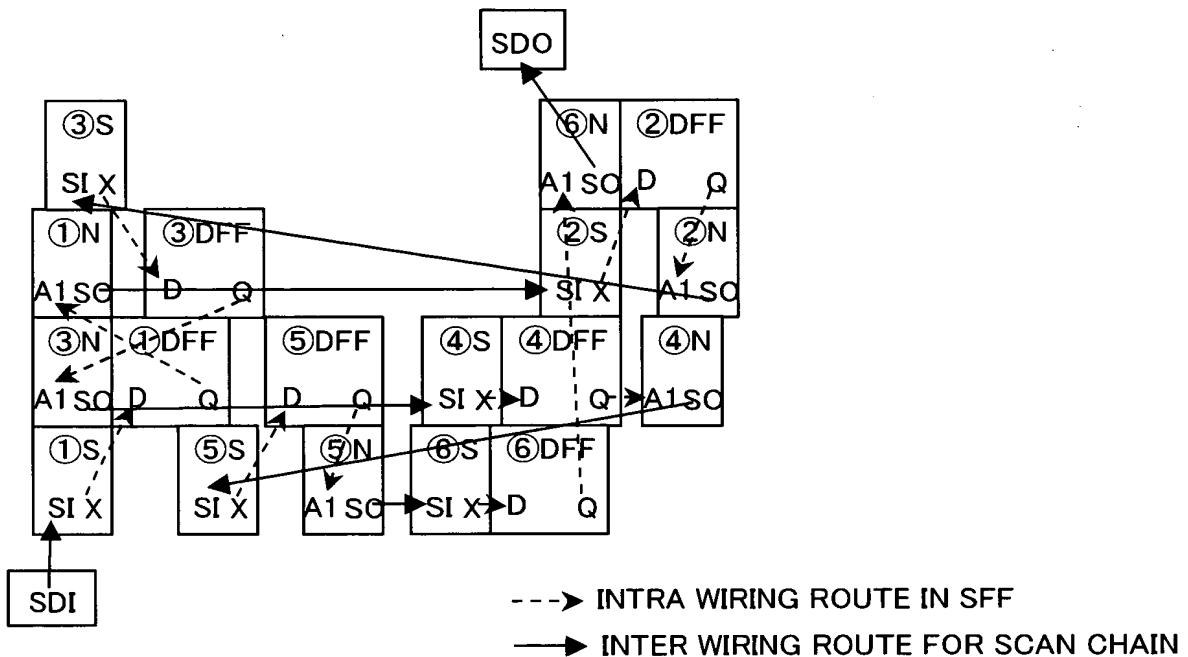
**FIG. 6**

NETLIST NL2



**FIG. 7**

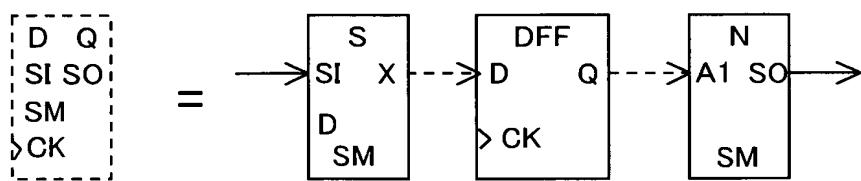
SCAN CHAIN BEFORE RE-ORDERING



**FIG. 8**

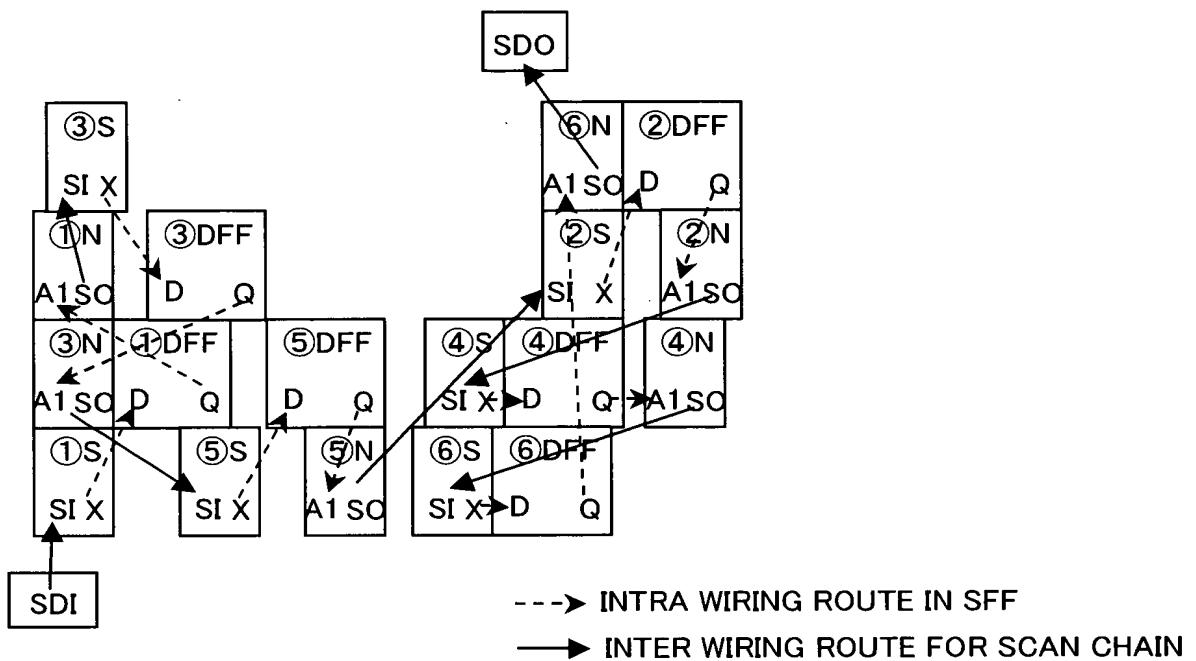
SOFT MACRO SFF

SFF DEVELOPED AS HARD MACROS



**FIG. 9**

SCAN CHAIN AFTER RE-ORDERING



**FIG. 10**

